

## Claims

1. System for the use of services (1, 2) within at least one communication network (4) with internet mechanisms and at least  
5 one automation system (5),
  - with components (10) of the automation system (5) being coupled together by means of a conventional field bus (8),
  - with a service access means (6) being provided to connect  
10 the conventional field bus (8) to the communication network (4),
  - with the service access means (6) being provided as client for the services (1, 2) provided in the communication network (4),
  - with the service access means (6) having transformation  
15 means (7), which are provided to adapt a first communication protocol of the services (1, 2) to a second communication protocol of the field bus (8).
2. System according to claim 1,  
20 c h a r a c t e r i z e d   i n   t h a t ,  
the service access means (6) is part of the automation system (5).
3. System according to claim 1 or 2,  
25 c h a r a c t e r i z e d   i n   t h a t ,  
the communication network (4) has at least one central register means (3) to provide information about at least some of the services (1, 2) and that the service access means (6) has search means (15), which can be used to address the central  
30 register means (3).
4. System according to one of the preceding claims,  
c h a r a c t e r i z e d   i n   t h a t ,  
the services (1, 2) are web services.

5. System according to one of the preceding claims,  
c h a r a c t e r i z e d i n t h a t ,  
the communication network (4) is an intranet.

5 6. System according to one of the preceding claims,  
c h a r a c t e r i z e d i n t h a t ,  
the service access means (6) is provided to provide further  
services (17) in the communication network (4).

10 7. Method for the use of services (1, 2) within at least one  
communication network (4) with internet mechanisms and at least  
one automation system (5) with components (10) coupled together  
by means of a conventional field bus (8), with which method  
• a service access means (6) connects the conventional field  
15 bus (8) to the communication network (4),  
• the service access means (6) operates as client for the ser-  
vices (1, 2) provided in the communication network (4) and  
• transformation means (7) of the service access means (6)  
adapt a first communication protocol of the services (1, 2)  
20 to a second communication protocol of the field bus (8).

8. Method according to claim 7,  
c h a r a c t e r i z e d i n t h a t ,  
the service access means (6) is integrated in the automation  
25 system (5).

9. Method according to claim 7 or 8,  
c h a r a c t e r i z e d i n t h a t ,  
at least one central register means (3) in the communication  
30 network (4) provides information about at least some of the  
services (1, 2) and the central register means (3) can be ad-  
dressed by means of search means (15) contained in the service  
access means (6).

35 10. Method according to one of claims 7 to 9,  
c h a r a c t e r i z e d i n t h a t ,  
the services (1, 2) are implemented as web services.

11. Method according to one of claims 7 to 10,  
c h a r a c t e r i z e d i n t h a t ,  
the communication network (4) is an intranet.

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12. Method according to one of claims 7 to 11,  
c h a r a c t e r i z e d i n t h a t ,  
the service access means (6) provides further services (17) in  
the communication network (4).

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13. Use of a method according to one of claims 7 to 12 for the  
use of a software update service for at least one of the compo-  
nents (10) of the automation system (5).

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14. Service access means for connecting an automation system  
(5) to a communication network (4) with internet mechanisms,  
which is provided as client for services (1, 2) provided in the  
communication network (4) and which has transformation means  
(7), which are provided to adapt a first communication protocol  
20 of the services (1, 2) to a second communication protocol of a  
conventional field bus (8) connecting components (10) of the  
automation system (5).

## Abstract

Use of services within a communication network with internet mechanisms and an automation system

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The invention relates to a system and a method for the use of services (1, 2) within at least one communication network (4) with internet mechanisms and at least one automation system (5), as well as a service access means (6) to connect an automation system (5) to a communication network (4). A system is proposed for the improved use of services (1, 2) within at least one communication network (4) with internet mechanisms and at least one automation system (5), with components (10) of the automation system (5) being coupled together by means of a conventional field bus (8), with a service access means (6) being provided to connect the conventional field bus (8) to the communication network (4), with the service access means (6) being provided as client for the services (1, 2) provided in the communication network (4) and with the service access means (6) having transformation means (7), which are provided to adapt a first communication protocol of the services (1, 2) to a second communication protocol of the field bus (8).

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FIG 1

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